

Full 10Gb Ethernet wire speed

Generate hundreds of transmit and receive UDP/ Multicast streams with their own unique profile

Multi-streaming Support

SNAT- and DNAT-enabled device testing

Multiple VMware VCenters Control

VMware statistics

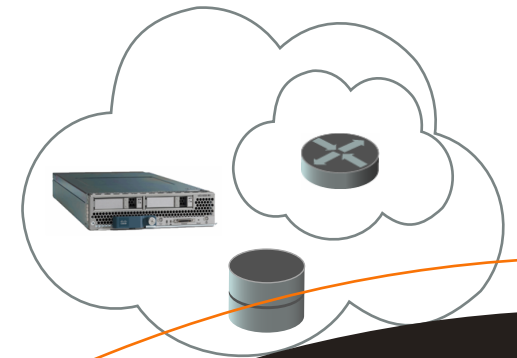
Automation Wizard Control Interfaces

Generate complete VMware external and internal traffic using a single test solution

TCP, UDP, Multicast, I/O, HTTP, SIP, RTP, RDP, WebEx

Multi-User support with Web-based Management Console

Windows and Linux support



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Zoltes Test Fabric

DATA CENTER AND CLOUD COMPUTING ASSESSMENTS

Zoltes Test Fabric (ZTF) verifies the functionality of the Data Center and Cloud Computing solutions by generating mixed I/O and Layer 2-3 network traffic and measuring the key metric points.

ZTF leverages Windows and Linux software Test Agents running on hundreds of Virtual Machines that initiate and terminate test traffic under the control of the test central point.

Multiple users can define, generate and track down hundreds of transmit and receive IP streams based on MAC address, VLAN tags, and IP addresses.

Data storage operations can be scheduled through the technology wizards the user interface provides in order to simulate real-world interactions within the data center.

Various 3rd-party tools can be controlled via custom automation and GUI scripts in order to generate real-life application traffic.

STREAM ORIENTED TRAFFIC GENERATION

Users can define and generate hundreds of transmit and receive UDP/ Multicast streams with their own unique traffic profile making it easy to scale up the tests beyond the SUT maximum performance.

I/O TESTING

Perform I/O operations under various patterns on Windows/ Linux Guest OS.

Drive I/O traffic from hundreds of VM simultaneously to a single datastore and collect I/O performance metrics.

I/O traffic can be against files on file system Guest OS or against raw Guest OS disk drives.

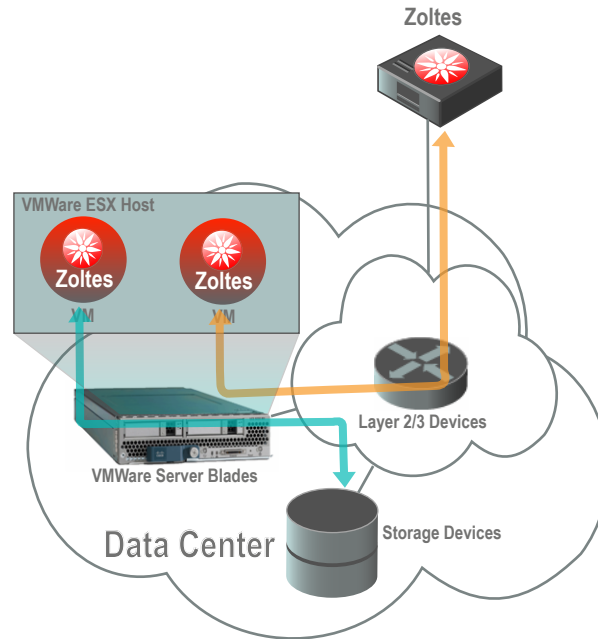
Use Industry standard I/O tools: IOMETER, IORATE and IOZONE.

APPLICATION TRAFFIC

Control Real-Life applications in order to test the Data Center infrastructure (network, datastore, blade servers).

Sample integrations:

- > MS SQL Server
- > VMware VDI Client
- > Dell DVD Store Test Application
- > Hadoop cluster
- > VLC Streaming server
- > VLC Player
- > Windows GUI applications control (MS Outlook, X-lite, etc.)



Zoltes Test Fabric generating IP and I/O data traffic

BENEFITS

Software only solution

Reduce TCO by using the existing hardware in the lab

One single test solutions for comprehensive assessment of Data Center and Cloud Computing environments

Comprehensive functionality and performance verification before Data Center solution deployment

Minimize test time by technology wizards and simple test bed provisioning via special preparation scripts

SPECIFICATIONS

Data Traffic

IP TRAFFIC

- > Client/ Server Simulation
- > Multi-streaming UDP, Multicast, and TCP traffic
- > VLAN Trunk Support
- > Multiple MAC addresses
- > SNAT- and DNAT-enabled device testing
- > Jumbo Frames

DATA STORAGE

- > File/ Raw mode
- > Read/ Write operations
- > Sequential/ Random operations

Application Traffic

DATABASE

HADOOP

VIDEO

HTTP

VOIP TRAFFIC

- > Trunk/ Endpoint Emulation
- > SIP RFC 3261
- > RTP RFC 3550 (optional), > RFC 2833
- > Make Call/ Wait Call/ End Call

THIN CLIENT TRAFFIC

- > Cisco Webex Clients
- > Microsoft RDP Clients
- > VMware VDI Clients
- > Simulate concurrent Users